

US 20100197392A1

(19) United States

(12) Patent Application Publication Geiss

(10) Pub. No.: US 2010/0197392 A1

(43) **Pub. Date:** Aug. 5, 2010

(54) VISUAL TARGET TRACKING

(75) Inventor: **Ryan M. Geiss**, San Jose, CA (US)

Correspondence Address: MICROSOFT CORPORATION ONE MICROSOFT WAY REDMOND, WA 98052 (US)

(73) Assignee: MICROSOFT CORPORATION,

Redmond, WA (US)

(21) Appl. No.: 12/632,652
(22) Filed: Dec. 7, 2009

Related U.S. Application Data

(63) Continuation-in-part of application No. 12/363,604, filed on Jan. 30, 2009.

Publication Classification

(51) **Int. Cl.**

A63F 13/00 (2006.01) *A63F 9/24* (2006.01)

(57) ABSTRACT

A target tracking method includes modeling the target in a first frame with a first frame iteration of a machine-readable model and receiving an observed depth image of a second frame of a scene including the target. The first frame iteration of the machine-readable model is then adjusted into a second frame iteration of the machine-readable model based on the observed depth image of the second frame.

